

CLARK

=> d his

(FILE 'HOME' ENTERED AT 18:53:58 ON 19 MAY 2004)

FILE 'ZCAPLUS' ENTERED AT 18:54:08 ON 19 MAY 2004

E AMYL/CT
E AMYLOID/CT
E AMYLOID+ALL/CT
E AMYLOIDOSIS+ALL/CT
E "ALZHEIMER'S DISEASE"+ALL/CT

FILE 'CAPLUS' ENTERED AT 18:56:15 ON 19 MAY 2004

L1 1 S 2001:50467/AN
SELECT RN L1 1

FILE 'REGISTRY' ENTERED AT 18:56:38 ON 19 MAY 2004

L2 16 S E155-170

FILE 'HCAPLUS' ENTERED AT 18:56:50 ON 19 MAY 2004

L3 6756 S L2
L4 82976 S AMYLOID+PFT,NT/CT
L5 4094 S AMYLOID PRECURSOR PROTEINS+PFT,NT/CT
L6 14673 S "ALZHEIMER'S DISEASE"+PFT,NT/CT
L7 97 S L3 AND L4
L8 2 S L3 AND L5
L9 2449 S L3(L)(THU OR BIOL)/RL
L10 74 S L9 AND L7
L11 47 S L10 AND PY<2001
L12 0 S L11 AND TRANSPLANT?
L13 10 S L3(L)AMYLOID?
L14 4 S L13 AND PY<2001

FILE 'STNGUIDE' ENTERED AT 19:03:57 ON 19 MAY 2004

FILE 'HCAPLUS' ENTERED AT 19:10:39 ON 19 MAY 2004

L15 145 S L3 AND ?PLANT?
L16 26 S L3 AND TRANSPLANT?
L17 14 S L16 AND PY<2001
L18 0 S L17 AND ?AMYLO?
L19 32 S L6 AND L3
L20 1 S L19 AND L17
L21 13 S L17 NOT L20
L22 6 S L21 AND CELL?

FILE 'MEDLINE' ENTERED AT 19:16:24 ON 19 MAY 2004

L23 3206 S L2
L24 15389 S AMYLOID+NT/CT
L25 5 S L23 AND L24
L26 6 S L23 AND TRANSPLANT?
L27 85 S L23 AND IMPLANT?

CLARK

=> d que 121

L2 16 SEA FILE=REGISTRY ABB=ON PLU=ON (100-88-9/BI OR 1120-71-4/BI
OR 14099-81-1/BI OR 22458-67-9/BI OR 29777-99-9/BI OR 303957-00
-8/BI OR 303957-01-9/BI OR 309752-14-5/BI OR 376-73-8/BI OR
407-41-0/BI OR 40712-20-7/BI OR 58431-88-2/BI OR 7013-33-4/BI
OR 76326-31-3/BI OR 91-21-4/BI OR 939-23-1/BI)
L3 6756 SEA FILE=HCAPLUS ABB=ON PLU=ON L2
L6 14673 SEA FILE=HCAPLUS ABB=ON PLU=ON "ALZHEIMER'S DISEASE"+PFT,NT/C
T
L16 26 SEA FILE=HCAPLUS ABB=ON PLU=ON L3 AND TRANSPLANT?
L17 14 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 AND PY<2001
L19 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND L3
L20 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND L17
L21 13 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 NOT L20

=> d ibib abs hitstr 121 1-13

L21 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:814461 HCAPLUS

DOCUMENT NUMBER: 133:362707

TITLE: Preparation of pyridylethylpyridines as
phosphodiesterase 4 inhibitors.

INVENTOR(S): Cote, Bernard; Friesen, Richard; Frenette, Richard;
Girard, Mario; Girard, Yves; Godbout, Cedrickx; Guay,
Daniel; Hamel, Pierre; Blouin, Marc; Ducharme, Yves;
Prescott, Sylvie

PATENT ASSIGNEE(S): Merck Frosst Canada & Co., Can.

SOURCE: PCT Int. Appl., 155 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

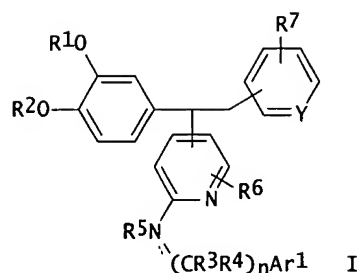
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000068198	A2	20001116	WO 2000-CA500	20000503 <--
WO 2000068198	A3	20010405		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6200993	B1	20010313	US 2000-551040	20000417
EP 1177175	A2	20020206	EP 2000-922400	20000503
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
AU 764258	B2	20030814	AU 2000-42829	20000503
PRIORITY APPLN. INFO.:			US 1999-132532P	P 19990505
			WO 2000-CA500	W 20000503
OTHER SOURCE(S):	MARPAT 133:362707			
GI				

CLARK



AB Title compds. [I; Y = N, NO; R1, R2 = H, alkyl, haloalkyl; R3, R4 = H, alkyl; R3R4 = O, atoms to form a 5-7 membered carbocyclic ring; R5 = null, H, (substituted) alkyl, alkylcarbonyl, arylcarbonyl, alkoxy carbonyl, aryloxy carbonyl, O; R3R5 = atoms to form a 5-6 membered heterocyclic ring; dotted line = optional double bond; R6, R7 = H, halo, alkyl, haloalkyl, cyano; n = 0-6], were prepd. Thus, 4-[2-[3,4-bis(difluoromethoxy)phenyl]-2-(6-bromo-3-pyridyl)ethyl]pyridine (prepn. given) was heated with PhCH2NH2 and CuI to give 72% 4-[2-[3,4-bis(difluoromethoxy)phenyl]-2-[6-(benzylamino)-3-pyridyl]ethyl]pyridine. The latter inhibited PDE 4 with IC50 = 0.75 nM.

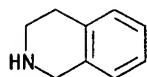
IT 91-21-4, 1,2,3,4-Tetrahydroisoquinoline

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of pyridylethylpyridines as phosphodiesterase 4 inhibitors)

RN 91-21-4 HCAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L21 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:614254 HCAPLUS

DOCUMENT NUMBER: 129:302563

TITLE: Preparation of piperidines and their analogs as neurokinin antagonists for treatment of diseases

INVENTOR(S): Carruthers, Nicholas I.; Alaimo, Cheryl A.

PATENT ASSIGNEE(S): Schering Corp., USA

SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.

CODEN: JKXXAF

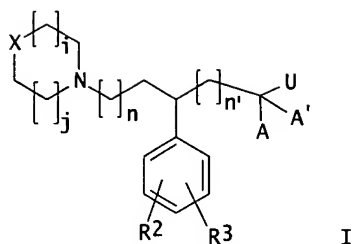
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10251228	A2	19980922	JP 1997-51901	19970306 <--
PRIORITY APPLN. INFO.:			JP 1997-51901	19970306
OTHER SOURCE(S):		MARPAT 129:302563		
GI				



AB The compds. I [i, j = 1, 2; n = 0-3; n' = 1-3; A = A' = H; AA' may form O, S, substituted imino; X = O, CO, (un)substituted CH₂, (un)substituted NH, S, SO, SO₂; R₂, R₃ = H, halo, C1-6 alkyl, CF₃, OH, alkoxy, (un)substituted Ph, NO₂, etc.] or pharmacol. acceptable salts are prepd. I are useful for treatment of asthma, allergy, psoriasis, rheumatoid arthritis, migraine headache, depression, Alzheimer's disease, gastrointestinal disorders, pain, etc. Hydrogenation of 2.0 g 3,4-dichloro-.beta.-(2-oxoethyl)-N-methyl-N-phenylbenzenepropanamide with NaBH₃CN at room temp. for 18 h gave 0.42 g .beta.-(3,4-dichlorophenyl)-4-hydroxy-N-methyl-N,4-diphenyl-1-piperidinepentamide, which showed K_i of 150 nM and 5.2 nM for NK1 and NK2 receptor binding, resp.

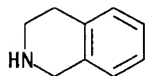
IT 91-21-4, 1,2,3,4-Tetrahydroisoquinoline

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of piperidines as neurokinin antagonists for treatment of diseases)

RN 91-21-4 HCAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L21 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:44761 HCAPLUS

DOCUMENT NUMBER: 126:59877

TITLE: Preparation of benzenesulfonyltetrahydroquinolines, -indolines, -isatins, and related compounds as inhibitors of phosphodiesterase IV and tumor necrosis factor.

INVENTOR(S): Montana, John; Dyke, Hazel Joan; Maxey, Robert James; Lowe, Christopher

PATENT ASSIGNEE(S): Chiroscience Limited, UK

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

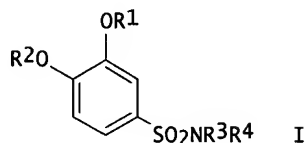
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9636611	A1	19961121	WO 1996-GB1203	19960520 <--
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML			
AU 9657721	A1	19961129	AU 1996-57721	19960520 <--
ZA 9603999	A	19970520	ZA 1996-3999	19960520 <--

CLARK

US 5728712 A 19980317 US 1996-650672 19960520 <--
 PRIORITY APPLN. INFO.: GB 1995-10184 A 19950519
 GB 1995-20419 A 19951006
 WO 1996-GB1203 W 19960520

OTHER SOURCE(S): MARPAT 126:59877
 GI



AB Title compds. [I; R1 = (substituted) alkyl, cycloalkyl; R2 = (halo-substituted) alkyl; R3R4N = (substituted) 5-7 membered heterocyclyl which is fused to a carbocyclic, arom., heterocyclic or heteroarom. ring; with provisos], were prepd. as inhibitors of phosphodiesterase IV and tumor necrosis factor (no data). Thus, 1,2,3,4-tetrahydroisoquinoline, 3,4-dimethoxybenzenesulfonyl chloride, and Et3N were stirred 24 h in CH2Cl2 to give N-(3,4-dimethoxybenzenesulfonyl)-1,2,3,4-tetrahydroquinoline.

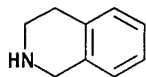
IT 91-21-4, 1,2,3,4-Tetrahydroisoquinoline

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of benzenesulfonyltetrahydroquinolines, -indolines, -isatins, and related compds. as inhibitors of phosphodiesterase IV and tumor necrosis factor)

RN 91-21-4 HCAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L21 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:34995 HCAPLUS

DOCUMENT NUMBER: 126:162158

TITLE: Novel anti-calcification treatment of biological tissues by grafting of sulfonated polyethylene oxide

AUTHOR(S): Park, Ki Dong; Lee, Won Kyu; Yun, Ju Young; Han, Dong Keun; Kim, Soo Hyun; Kim Young Ha; Kim, Hyoung Mook; Kim, Kwang Taek

CORPORATE SOURCE: Polymer Chem. Lab., Korea Inst. Sci. Technol., Seoul, 130-650, S. Korea

SOURCE: Biomaterials (1997), 18(1), 47-51

CODEN: BIMADU; ISSN: 0142-9612

PUBLISHER: Elsevier

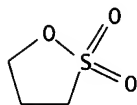
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Biol. porcine tissue was modified by the direct coupling of sulfonated polyethylene oxide (PEO-SO3) contg. amino end groups after glutaraldehyde fixation. The calcification of the modified tissue [bioprosthetic tissue (BT)-PEO-SO3] and control (BT control) was investigated by in vivo rate subdermal, canine aorta-illiac shunt and right ventricle-pulmonary artery shunt implantation models. Less calcium deposition of BT-PEO-SO3 than of BT control was obsd. in in vivo tests. Such a reduced calcification of BT-PEO-SO3 can be explained by decreases of residual glutaraldehyde groups, a space filling effect and, therefore, improved biostability and synergistic blood-compatible effects of PEO and SO3 groups after the covalent binding of PEO-SO3 to tissue. This simple method can be a useful anti-calcification treatment for implantable tissue valves.

CLARK

IT 1120-71-4D, Propanesultone, reaction products with PEG
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(anticalcification treatment of biol. tissues by grafting of sulfonated polyethylene oxide)
RN 1120-71-4 HCAPLUS
CN 1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI) (CA INDEX NAME)

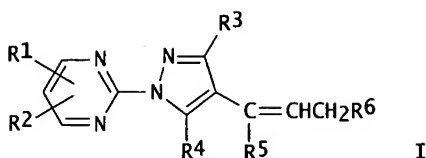


REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

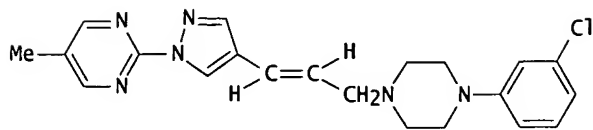
L21 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:446483 HCAPLUS
DOCUMENT NUMBER: 125:114693
TITLE: Preparation of pyrimidinylpyrazole derivatives as antitumor agents
INVENTOR(S): Ejima, Akio; Sugimori, Masamichi; Mitsui, Ikuro
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9610024	A1	19960404	WO 1995-JP1934	19950925 <--
W: CA, CN, FI, KR, NO, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2201110	AA	19960404	CA 1995-2201110	19950925 <--
EP 784055	A1	19970716	EP 1995-932229	19950925 <--
EP 784055	B1	20030212		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1166833	A	19971203	CN 1995-196449	19950925 <--
CN 1071754	B	20010926		
RU 2146675	C1	20000320	RU 1997-106768	19950925 <--
AT 232528	E	20030215	AT 1995-932229	19950925
ES 2192584	T3	20031016	ES 1995-932229	19950925
JP 09048776	A2	19970218	JP 1995-247096	19950926 <--
FI 9701227	A	19970523	FI 1997-1227	19970324 <--
NO 9701384	A	19970523	NO 1997-1384	19970324 <--
HK 1001396	A1	20030815	HK 1998-100241	19980112
US 5852019	A	19981222	US 1998-821076	19980204 <--
PRIORITY APPLN. INFO.:			JP 1994-229422	A 19940926
			JP 1995-135010	A 19950601
			WO 1995-JP1934	W 19950925
OTHER SOURCE(S):		MARPAT 125:114693		
GI				

CLARK



I



II

AB The title compds. [I; R1, R2 = H, halo, NH2, alkylamino, dialkylamino, OH, alkylthio, alkoxy, cyano, CONH2, (un)substituted alkyl, etc.; R3, R5 = H, alkyl; R4 = H, alkyl, CH2Ph; R6= tetrahydroisoquinolyl, morpholyl, piperidyl, piperazyl, etc.] are prepd. Thus, 10 g 1-[5-methyl-1-(2-pyrimidinyl)-4-pyrazolyl]-3-[4-(3-chlorophenyl)-1-piperazinyl]-1-propanone hydrochloride was dissolved in a mixt. of 600 mL THF and 600 mL EtOH, cooled to 0.degree., reduced with a total of 3.5 g NaBH4 for 1 h and 45 min, treated with 30 mL 4 N aq. HCl, distd. to remove the solvent, treated with 1,200 mL THF and 5.9 g p-MeC6H4SO3H, and refluxed for 2 h to give the title compd. (II). II was administered at 77 mg/kg i.p on day 1 and 5 to mice **transplanted** i.p. with P388 leukemia cells to show T/C of 169%.

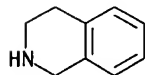
IT 14099-81-1, 1,2,3,4-Tetrahydroisoquinoline hydrochloride

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of alkenylpyrimidinylpyrazole derivs. as antitumor agents)

RN 14099-81-1 HCAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro-, hydrochloride (6CI, 8CI, 9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:326979 HCAPLUS

DOCUMENT NUMBER: 125:7054

TITLE: Malignant conversion of chemically transformed normal human cells

AUTHOR(S): Milo, George E.; Li, Dawei; Casto, Bruce C.; Theil, Karl; Shuler, Charles; Noyes, Inge; Chen, Jucheng

CORPORATE SOURCE: Dep. Med. Biochem. Comprehensive Cancer Cent., Ohio State Univ., Columbus, OH, 43210, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1996), 93(11), 5229-5234

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two structurally unrelated chems., aflatoxin B1 and propane sultone, transformed human foreskin cells to a stage of anchorage-independent growth. Isolation from agar and repopulation in monolayer culture of these transformed cells was followed by transfection with a cDNA library,



CLARK

which resulted in cells that exhibited an altered epithelioid morphol. Chem. transformed/nontransfected cells and transfected normal cells did not undergo a significant morphol. change. These epithelioid-appearing, transfected cells, when inoculated into nude mice, form progressively growing tumors. The tumors are histopathol. interpreted as carcinomas. All of the first generation tumors in the surrogate hosts exhibited characteristic rates of growth similar to those of **transplants** of spontaneous human tumors. In the second generation of tumor xenografts, the progressively growing tumors derived from the transfected cells exhibited a more rapid rate of growth. Southern anal. and reverse transcription PCR confirmed that a 1.3-kb genetic element was integrated into the genome and was actively being transcribed. Examn. of the metaphase chromosomes in normal human cells revealed that the genetic element responsible for this conversion was located at site 31-32 of the q arm of chromosome 7. The DNA sequence of this 1.3-kb genetic element contains a coding region for 79 amino acids and a long 3'-untranslated region and appears to be identical to CATR1.3 isolated from tumors produced by Me methanesulfonate-converted, nontransplantable human tumor cells.

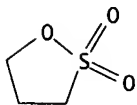
IT 1120-71-4, Propane sultone

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(transfection with tumor-derived cDNA library contg. CATR1.3 genetic element converts normal human cells transformed to anchorage-independent growth stage by chem. carcinogenesis to aggressive malignant tumorigenic stage in nude mice)

RN 1120-71-4 HCAPLUS

CN 1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI) (CA INDEX NAME)



L21 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:767627 HCAPLUS

DOCUMENT NUMBER: 124:21803

TITLE: Method and agents for preventing tissue injury from hypoxia

INVENTOR(S): Bursten, Stuart L.; Singer, Jack W.; Rice, Glenn C.

PATENT ASSIGNEE(S): CE Therapeutics, Inc., USA

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

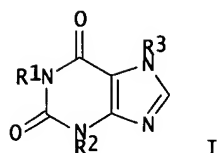
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9513075	A1	19950518	WO 1994-US12821	19941114 <--
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9510907	A1	19950529	AU 1995-10907	19941114 <--
EP 728003	A1	19960828	EP 1995-901808	19941114 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
PRIORITY APPLN. INFO.:		US 1993-152117	A	19931112
		WO 1994-US12821	W	19941114
OTHER SOURCE(S):		MARPAT 124:21803		
GI				



AB Tissue injury, caused by tissue hypoxia and reoxygenation, is prevented by administering a xanthine deriv. I [R1 = (.omega.-1) secondary alc.-substituted C5-12 alkyl enantiomer; R2, R3 = C1-12 alkyl or (di)oxaalkyl] or a (heterocyclalkyl)amine that inhibits signal transduction by inhibiting cellular accumulation of linoleoyl phosphatidic acid through inhibition of lysophosphatidic acyltransferase. Diseases that can be treated with these compds. include shock, sequelae of myocardial infarction and stroke, altitude sickness, acidosis, hypoxia-mediated neurodegenerative diseases, and disorders related to transplantation and transplant rejection. Thus, in mice with exptl. hemorrhage, treatment with lisophylline (100 mg/kg i.v. after 1 h, then 100 mg/kg i.p. 8 times at 8-h intervals) largely normalized signs of hemorrhagic shock (neutrophil infiltration, interstitial edema, elevated plasma levels of interferon-.gamma. and tumor necrosis factor .alpha., elevated mRNA levels for interleukins 1.beta. and 6 in pulmonary mononuclear cells, etc.).

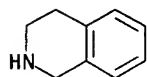
IT 91-21-4D, aminoalkyl derivs.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method and agents for preventing tissue injury from hypoxia)

RN 91-21-4 HCAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L21 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:496515 HCAPLUS

DOCUMENT NUMBER: 123:420

TITLE: .gamma.-Propoxy-sulfo-lichenin, an antitumor polysaccharide derived from lichenin

AUTHOR(S): Hensel, Andreas

CORPORATE SOURCE: Taunusring 16, Alzenau/Ufr., 63755, Germany

SOURCE: Pharmaceutica Acta Helvetiae (1995), 70(1), 25-31

CODEN: PAHEAA; ISSN: 0031-6865

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A water-sol. semisynthetic polysaccharide, .gamma.-propoxy-sulfo-lichenin (PSL), was prepd. by reaction of propansultone with lichenin, a natural occurring .beta.-1.3/1.4-linked glucan originating from Cetraria sp. PSL represents a class of mixed-linked .beta.-glucans with long and hydrophilic side chains in position C-6 of the glucan backbone. PSL with a degree of substitution of 0.8 and an av. mol. wt. of 250 kDa exhibited a strong antitumor activity in doses of 25 and 5 mg/kg against solid sarcoma 180 (100% resp. 82% tumor inhibition). The antitumor activity of PSL was shown to be dependent on the dimension of the mol.: the higher the av. mol. wt., the higher was the inhibition rate obtained in the antitumor assay. No antitumor effect was obsd. by using a pretreatment of animals prior to transplantation of sarcoma 180. With syngenic DBA/2-MC.SC1 fibrosarcoma, PSL inhibited tumor growth by about 88% at a

CLARK

concn. of 25 mg/kg. PSL failed to exhibit any direct cytotoxic effects on hormone-independent MDA-MB 231 mammary carcinoma. For PSL, an indirect antitumor effect via modulation of the host immune defense is postulated.

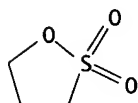
IT 1120-71-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(.gamma.-Propoxy-sulfo-lichenin as an antitumor polysaccharide derived from lichenin)

RN 1120-71-4 HCAPLUS

CN 1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI) (CA INDEX NAME)



L21 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:227140 HCAPLUS

DOCUMENT NUMBER: 122:151367

TITLE: Compounds for treatment of proliferative diseases mediated by second messengers

INVENTOR(S): Leigh, Alistair; Michnick, John; Kumar, Anil; Underiner, Gail; Rice, Glenn C.; Klein, J. Peter; Reddy, Dandu

PATENT ASSIGNEE(S): Cell Therapeutics, Inc., USA

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9422449	A1	19941013	WO 1994-US3610	19940401 <--
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5670506	A	19970923	US 1993-42946	19930405 <--
AU 9466238	A1	19941024	AU 1994-66238	19940401 <--
EP 714302	A1	19960605	EP 1994-914005	19940401 <--
R: DE, FR, GB, IT				

PRIORITY APPLN. INFO.: US 1993-42946 19930405
WO 1994-US3610 19940401

OTHER SOURCE(S): MARPAT 122:151367

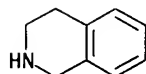
AB Carbocyclic and heterocyclic compds. with 5-7 ring atoms are prepd. which are useful as antiproliferative agents for treatment and prevention of diseases mediated by 2nd-messenger pathways. Thus, 1-(6-chloro-5-oxohexyl)-3,7-dimethylxanthine at 100 .mu.M inhibited by 88% the degranulation of mast cells in response to allergen challenge and strongly inhibited growth of Saccharomyces cerevisiae, an indication of potential topical or systemic antimicrobial activity.

IT 91-21-4DP, derivs.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(compds. for treatment of proliferative diseases mediated by second messengers)

RN 91-21-4 HCAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L21 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:144618 HCAPLUS

DOCUMENT NUMBER: 118:144618

TITLE: Phosphorus metabolite characterization of human prostatic adenocarcinoma in a nude mouse model by phosphorus-32 magnetic resonance spectroscopy and high pressure liquid chromatography

AUTHOR(S): Kurhanewicz, John; Dahiya, Rajvir; Macdonald, Jeffrey M.; Jajodia, Prahalad; Chang, Lee Hong; James, Thomas L.; Narayan, Perinchery

CORPORATE SOURCE: Sch. Med., Univ. California, San Francisco, CA, 94143-0738, USA

SOURCE: NMR in Biomedicine (1992), 5(4), 185-92

CODEN: NMRBEF; ISSN: 0952-3480

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of expts. were conducted to identify and quantify the phosphorus metabolites of DU 145 xenografts (a human prostatic adenocarcinoma cell line grown in nude mice) using ³¹P MRS and HPLC. The ¹³¹P spectral characteristics of DU 145 xenografts were compared to perfused DU 145 cells and to in situ human prostatic adenocarcinomas. These studies demonstrated that both DU 145 xenografts and perfused DU 145 cells exhibited reduced levels of phosphocreatine relative to spectra of in situ human prostatic adenocarcinomas. Elevated levels of phosphomonesters (PMEs) were obsd. in ³¹P spectra of both DU 145 xenografts and in situ human prostatic adenocarcinomas. The major components of the PME resonance of DU 145 xenografts were identified as phosphocholine and phosphoethanolamine. High levels of diphosphodiester (DPDEs) were consistently obsd. for both DU 145 xenografts and perfused DU 145 cells, but were absent in ³¹P spectra of in situ primary human adenocarcinomas. In agreement with spectroscopic results, high pressure liq. chromatog. analyses of human tissue removed at surgery contained insignificant amts. of DPDEs while DU 145 xenografts had high levels of DPDEs consistently mainly of uridine-5'-diphospho-N-acetylgalactosamine (22.4 nmol/mg protein) and uridine-5'-diphospho-N-acetylglucosamine (7.4 nmol/mg protein).

IT 407-41-0

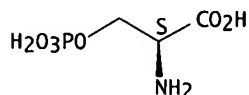
RL: BIOL (Biological study)

(of prostate gland adenocarcinoma cultured cells and xenotransplants in nude mouse and in situ from tissues of human, NMR spectroscopy and HPLC in study of)

RN 407-41-0 HCAPLUS

CN L-Serine, dihydrogen phosphate (ester) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L21 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:589189 HCAPLUS

DOCUMENT NUMBER: 117:189189

TITLE: Levels of phosphoserine, phosphothreonine and prostaglandins in a rat **transplantable** hepatoma and prostatic tumor

AUTHOR(S): Levine, L.; Van Vunakis, H.

CORPORATE SOURCE: Dep. Biochem., Brandeis Univ., Waltham, MA, 02254, USA

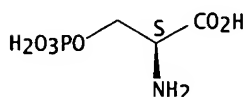
SOURCE: Developments in Oncology (1991), 67(Eicosanoids Other Bioact. Lipids Cancer Radiat. Inj.), 353-7

CODEN: DEOND5; ISSN: 0167-4927

CLARK

DOCUMENT TYPE: Journal
LANGUAGE: English
AB To investigate the possible relationship between putative oncogene product and growth factor receptor kinase activity-assocd. phosphorylation and prostaglandin formation, the authors measured phosphoserine and phosphothreonine residues and prostaglandin content in hepatoma and prostate tumor **transplants** in rats.
IT **407-41-0**
RL: BIOL (Biological study)
(of hepatoma and prostate tumor tissues, phosphothreonine and prostaglandins in relation to)
RN 407-41-0 HCAPLUS
CN L-Serine, dihydrogen phosphate (ester) (9CI) (CA INDEX NAME)

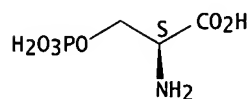
Absolute stereochemistry.



L21 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:465125 HCAPLUS
DOCUMENT NUMBER: 117:65125
TITLE: Purification and characterization of a 65-kDa tumor-associated phosphoprotein from rat **transplantable** hepatocellular carcinoma 1682C cell line
AUTHOR(S): Mirowski, Marek; Sherman, Ute; Hanausek, Malgorzata
CORPORATE SOURCE: M. D. Anderson Cancer Cent., Univ. Texas, Smithville, TX, 78957, USA
SOURCE: Protein Expression and Purification (1992), 3(3), 196-203
CODEN: PEXPEJ; ISSN: 1046-5928
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A homogeneous tumor-assocd. phosphoglycoprotein of about 65 kDa (p65) was isolated by ammonium sulfate pptn. of proteins from conditioned medium contg. the rat **transplantable** hepatocellular carcinoma 1682C cell line, followed by high-performance liq. chromatog. on mol.-sieving and Ph hydrophobic interaction columns. The protein was concd. in a Rotofor isoelec. focusing cell and finally sepd. by isoelectrofocusing followed by SDS-polyacrylamide gel electrophoresis. A purifn. of approx. 11,000-fold was achieved after the Rotofor concn. step. This protein migrated as a single band upon electrophoresis in SDS-PAGE and had a pI of 5.8 in isoelectrofocusing gels. The carbohydrate content of the blotted phosphoglycoprotein was analyzed by probing the blots with biotinylated lectins; a pos. reaction was detected with Con A, wheat-germ agglutinin, and Ricinus communis agglutinin. To confirm the tumor origin of this mol., hepatocellular carcinoma cells were labeled in vivo using [32P]orthophosphate as well as [35S]methionine and cell culture medium was analyzed for the presence of radioactive band that corresponds with the protein. Phosphoamino acid anal. by thin-layer chromatog. showed the presence of phosphotyrosine, phosphothreonine, and phosphoserine, which was later confirmed by anal. of the amino acid compn. Using the method described by J. J. Marchalonis and J. K. Weltman (1971) for comparative anal. of protein structure and evolution, the protein isolated here was compared with other tumor markers and proteins showing similar properties and no significant similarities were found.
IT **407-41-0**
RL: BIOL (Biological study)
(of glycoprophoprotein p65, of hepatocellular carcinoma)
RN 407-41-0 HCAPLUS
CN L-Serine, dihydrogen phosphate (ester) (9CI) (CA INDEX NAME)

CLARK

Absolute stereochemistry.



L21 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1981:422482 HCAPLUS

DOCUMENT NUMBER: 95:22482

TITLE: Retrieval analysis of calcific degeneration of
prosthetic tissue valves: the role of vitamin
K-dependent processes and other regulatory mechanisms

AUTHOR(S): Levy, Robert J.; Sanders, Stephen P.; Lian, Jane B.

CORPORATE SOURCE: Med. Cent., Child. Hosp., Boston, MA, 02115, USA

SOURCE: NBS Special Publication (United States) (1981

), 601, 339-48

CODEN: XNBSAV; ISSN: 0083-1883

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Calcification of prosthetic glutaraldehyde preserved porcine xeno-graft valves was found to be assocd. with calcification, and this complication occurred only in patients under 15 yr of age at the time of valve replacement. Amino acid anal. of calcified leaflet tissue revealed the presence of high levels of proteins contg. vitamin K-dependent, Ca²⁺-binding .gamma.-carboxyglutamic acid (Gla), in mineralized specimens, with no Gla present in noncalcified valve tissue. Ca²⁺-binding was also detected in relatively greater amts. in the mineralized specimens, compared to control. Calcified xenografts also demonstrated a relative redn. in collagen content. The implications that vitamin K-antagonism could be of benefit in treating or preventing prosthesis calcification is discussed.

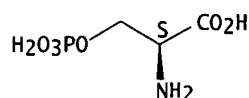
IT 407-41-0

RL: BIOL (Biological study)
(of ischemic heart valve xenograph calcification)

RN 407-41-0 HCAPLUS

CN L-Serine, dihydrogen phosphate (ester) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CLARK

=> d que

L2 16 SEA FILE=REGISTRY ABB=ON PLU=ON (100-88-9/BI OR 1120-71-4/BI
OR 14099-81-1/BI OR 22458-67-9/BI OR 29777-99-9/BI OR 303957-00
-8/BI OR 303957-01-9/BI OR 309752-14-5/BI OR 376-73-8/BI OR
407-41-0/BI OR 40712-20-7/BI OR 58431-88-2/BI OR 7013-33-4/BI
OR 76326-31-3/BI OR 91-21-4/BI OR 939-23-1/BI)
L23 3206 SEA FILE=MEDLINE ABB=ON PLU=ON L2
L24 15389 SEA FILE=MEDLINE ABB=ON PLU=ON AMYLOID+NT/CT
L25 5 SEA FILE=MEDLINE ABB=ON PLU=ON L23 AND L24

=> d bib abs trial 1-5

L25 ANSWER 1 OF 5 MEDLINE on STN
AN 2003215702 MEDLINE
DN PubMed ID: 12663096
TI NMDA receptor regulation by amyloid-beta does not account for its
inhibition of LTP in rat hippocampus.
AU Raymond Clarke R; Ireland David R; Abraham Wickliffe C
CS Department of Psychology, University of Otago, Box 56, Dunedin, New
Zealand.. clarke.raymond@anu.edu.au
SO Brain research, (2003 Apr 11) 968 (2) 263-72.
Journal code: 0045503. ISSN: 0006-8993.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200307
ED Entered STN: 20030513
Last Updated on STN: 20030708
Entered Medline: 20030707
AB Accumulation of amyloid-beta peptide (Abeta) is widely believed to play a
critical role in the pathogenesis of Alzheimer's disease. Although
amyloid-containing plaques are a key neuropathological feature of AD,
soluble forms of Abeta can interfere with synaptic plasticity in the
brain, suggesting that this form of the peptide may be responsible for
much of the memory deficit seen early in the disease. Here, we
investigate the mechanism underlying the effects of Abeta on long-term
potentiation (LTP) in area CA1 of rat hippocampus. Extracellular field
recordings were made in area CA1 of hippocampal slices taken from young,
adult male rats. A non-toxic concentration of Abeta (200 nM) produced a
rapid inhibition of LTP induced by 100 Hz stimulation while having no
long-term effect on normal synaptic transmission. The same dose of Abeta
had no effect on long-term depression (LTD) induced by 1200 pulses at 1 or
3 Hz. PicROTOXIN had no effect on the inhibition of LTP, suggesting Abeta
does not act by enhancing GABAergic transmission. Since the LTP induction
in this study was dependent on N-methyl-D-aspartate (NMDA) receptor
activation, we looked at the effect of Abeta on isolated NMDA
receptor-mediated field potentials. Abeta produced a small but
significant inhibition of NMDA receptor-mediated synaptic potentials (
approximately 25%). However, a low dose of MK-801 (0.5 microM) that
produced a similar inhibition of NMDA potentials had no effect on LTP
induction but completely blocked LTD induction. These results suggest
that Abeta does not inhibit LTP via effects on NMDA receptors, but rather
interferes with a downstream pathway.
TI NMDA receptor regulation by amyloid-beta does not account for its
inhibition of LTP in rat hippocampus.
CT Check Tags: Comparative Study; In Vitro; Male; Support, Non-U.S. Gov't
2-Amino-5-phosphonovalerate: PD, pharmacology
6-Cyano-7-nitroquinoxaline-2,3-dione: PD, pharmacology
*Amyloid beta-Protein: ME, metabolism
Animals
Dizocilpine Maleate: PD, pharmacology
Excitatory Amino Acid Antagonists: PD, pharmacology
GABA Antagonists: PD, pharmacology
Hippocampus: AH, anatomy & histology
Hippocampus: DE, drug effects

CLARK

*Hippocampus: PH, physiology
 Long-Term Depression (Physiology): DE, drug effects
 Long-Term Depression (Physiology): PH, physiology
 Long-Term Potentiation: DE, drug effects
 *Long-Term Potentiation: PH, physiology
 Picrotoxin: PD, pharmacology
 Rats
 Rats, Sprague-Dawley
 *Receptors, N-Methyl-D-Aspartate: ME, metabolism
 RN 115066-14-3 (6-Cyano-7-nitroquinoxaline-2,3-dione); 124-87-8 (Picrotoxin);
 76726-92-6 (2-Amino-5-phosphonovalerate); 77086-22-7 (Dizocilpine
 Maleate)
 CN 0 (Amyloid beta-Protein); 0 (Excitatory Amino Acid Antagonists); 0 (GABA
 Antagonists); 0 (Receptors, N-Methyl-D-Aspartate)
 L25 ANSWER 2 OF 5 MEDLINE on STN
 AN 2002346485 MEDLINE
 DN PubMed ID: 12088742
 TI Uptake and pathogenic effects of amyloid beta peptide 1-42 are enhanced by
 integrin antagonists and blocked by NMDA receptor antagonists.
 AU Bi X; Gall C M; Zhou J; Lynch G
 CS Psychiatry and Human Behavior, 101 Theory, Suite 250, University of
 California at Irvine, 92697, USA.. xbi@uci.edu
 NC AG00538 (NIA)
 NS37799 (NINDS)
 SO Neuroscience, (2002) 112 (4) 827-40.
 Journal code: 7605074. ISSN: 0306-4522.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200209
 ED Entered STN: 20020629
 Last Updated on STN: 20020904
 Entered Medline: 20020903
 AB Many synapses contain two types of receptors - integrins and
 N-methyl-D-aspartate (NMDA) receptors - that have been implicated in
 peptide internalization. The present studies tested if either class is
 involved in the uptake of the 42-residue form of amyloid beta peptide
 (Abeta1-42), an event hypothesized to be of importance in the development
 of Alzheimer's disease. Cultured hippocampal slices were exposed to
 Abeta1-42 for 6 days in the presence or absence of soluble
 Gly-Arg-Gly-Asp-Ser-Pro, a peptide antagonist of Arg-Gly-Asp (RGD)-binding
 integrins, or the disintegrin echistatin. Abeta uptake, as assessed with
 immunocytochemistry, occurred in 42% of the slices incubated with Abeta
 peptide alone but in more than 80% of the slices co-treated with integrin
 antagonists. Uptake was also found in a broader range of hippocampal
 subfields in RGD-treated slices. Increased sequestration was accompanied
 by two characteristics of early stage Alzheimer's disease: elevated
 concentrations of cathepsin D immunoreactivity and activation of
 microglia. The selective NMDA receptor antagonist D-(-)-2-amino-5-
 phosphonovalerate completely blocked internalization of Abeta,
 up-regulation of cathepsin D, and activation of microglia. Our results
 identify two classes of receptors that cooperatively regulate the
 internalization of Abeta1-42 and support the hypothesis that
 characteristic pathologies of Alzheimer's disease occur once critical
 intraneuronal Abeta concentrations are reached.
 TI Uptake and pathogenic effects of amyloid beta peptide 1-42 are enhanced by
 integrin antagonists and blocked by NMDA receptor antagonists.
 CT Check Tags: Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.
 2-Amino-5-phosphonovalerate: PD, pharmacology
 Alzheimer Disease: ME, metabolism
 *Amyloid beta-Protein: AE, adverse effects
 *Amyloid beta-Protein: ME, metabolism
 Animals
 Cathepsin D: ME, metabolism
 *Hippocampus: ME, metabolism

Immunohistochemistry
 *Integrins: AI, antagonists & inhibitors
 *Integrins: ME, metabolism
 Microglia: ME, metabolism
 *Oligopeptides: PD, pharmacology
 *Peptide Fragments: AE, adverse effects
 *Peptide Fragments: ME, metabolism
 Rats
 Rats, Sprague-Dawley
 *Receptors, N-Methyl-D-Aspartate: AI, antagonists & inhibitors
 *Receptors, N-Methyl-D-Aspartate: ME, metabolism
 Tissue Culture

RN 76726-92-6 (2-Amino-5-phosphonovalerate); 91037-75-1
 (glycyl-arginyl-glycyl-aspartyl-seryl-proline)

CN 0 (Amyloid beta-Protein); 0 (Integrins); 0 (Oligopeptides); 0 (Peptide
 Fragments); 0 (Receptors, N-Methyl-D-Aspartate); 0 (amyloid beta-protein
 (1-42)); 0 (glycyl-arginyl-alanyl-aspartyl-seryl-proline); EC 3.4.23.5
 (Cathepsin D)

L25 ANSWER 3 OF 5 MEDLINE on STN
 AN 2001438057 MEDLINE
 DN PubMed ID: 11483299
 TI Dynamic induction of the long pentraxin PTX3 in the CNS after limbic
 seizures: evidence for a protective role in seizure-induced
 neurodegeneration.
 AU Ravizza T; Moneta D; Bottazzi B; Peri G; Garlanda C; Hirsch E; Richards G
 J; Mantovani A; Vezzani A
 CS Department of Neuroscience, Mario Negri Institute for Pharmacological
 Research, Milan, Italy.
 SO Neuroscience, (2001) 105 (1) 43-53.
 Journal code: 7605074. ISSN: 0306-4522.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200109
 ED Entered STN: 20011001
 Last Updated on STN: 20011001
 Entered Medline: 20010927

AB Pentraxin 3, a prototypic long pentraxin, is induced by proinflammatory
 signals in the brain. Inflammatory cytokines are rapidly induced in glia
 by epileptic activity. We show that pentraxin 3 immunoreactivity and mRNA
 are enhanced in the rat forebrain above undetectable control levels by
 limbic seizures with a dual pattern of induction. Within 6 h from seizure
 onset, pentraxin 3 immunoreactivity was increased in astrocytes. Eighteen
 to 48 h later, specific neuronal populations and leucocytes were strongly
 immunoreactive only in areas of neurodegeneration. This staining was
 abolished when neuronal cell loss, but not seizures, was prevented by
 blocking N-methyl-D-aspartate receptors. Pentraxin 3 -/- mice had a more
 widespread seizure-related neuronal damage in the forebrain than their
 wild-type littermates although both groups had similar epileptic activity.
 Our results provide evidence that pentraxin 3 is synthesized in brain
 after seizures and may exert a protective role in seizure-induced
 neurodegeneration.

TI Dynamic induction of the long pentraxin PTX3 in the CNS after limbic
 seizures: evidence for a protective role in seizure-induced
 neurodegeneration.

CT Check Tags: Male; Support, Non-U.S. Gov't
 2-Amino-5-phosphonovalerate: AA, analogs & derivatives
 2-Amino-5-phosphonovalerate: PD, pharmacology
 Amyloid P Component: GE, genetics
 *Amyloid P Component: ME, metabolism
 Animals
 C-Reactive Protein: GE, genetics
 *C-Reactive Protein: ME, metabolism
 Epilepsy: CI, chemically induced
 Epilepsy: GE, genetics

CLARK

*Epilepsy: PP, physiopathology
 Excitatory Amino Acid Agonists: PD, pharmacology
 Excitatory Amino Acid Antagonists: PD, pharmacology
 Fluorescent Dyes: PK, pharmacokinetics
 Genetic Predisposition to Disease
 Immunohistochemistry
 Kainic Acid: PD, pharmacology
 *Limbic System: ME, metabolism
 Limbic System: PA, pathology
 Limbic System: PP, physiopathology
 Mice
 Mice, Knockout
 Nerve Degeneration: PA, pathology
 *Nerve Degeneration: PP, physiopathology
 Neurons: DE, drug effects
 *Neurons: ME, metabolism
 Neurons: PA, pathology
 *Neuroprotective Agents: ME, metabolism
 Prosencephalon: DE, drug effects
 Prosencephalon: ME, metabolism
 Prosencephalon: PP, physiopathology
 RNA, Messenger: ME, metabolism
 Rats
 Rats, Sprague-Dawley
 Receptors, N-Methyl-D-Aspartate: AI, antagonists & inhibitors
 Receptors, N-Methyl-D-Aspartate: ME, metabolism

RN 137424-81-8 (2-amino-4-methyl-5-phosphono-3-pentenoic acid); 148591-49-5 (PTX3 protein); 487-79-6 (Kainic Acid); 76726-92-6 (2-Amino-5-phosphonovalerate); 9007-41-4 (C-Reactive Protein)
 CN 0 (Amyloid P Component); 0 (Excitatory Amino Acid Agonists); 0 (Excitatory Amino Acid Antagonists); 0 (Fluorescent Dyes); 0 (Neuroprotective Agents); 0 (RNA, Messenger); 0 (Receptors, N-Methyl-D-Aspartate)

L25 ANSWER 4 OF 5 MEDLINE on STN

AN 1999275440 MEDLINE

DN PubMed ID: 10343972

TI Aging modulates nitric oxide synthesis and cGMP levels in hippocampus and cerebellum. Effects of amyloid beta peptide.

AU Chalimoniuk M; Strosznajder J B

CS Department of Cellular Signalling, Polish Academy of Science, Warsaw, Poland.

SO Molecular and chemical neuropathology / sponsored by the International Society for Neurochemistry and the World Federation of Neurology and research groups on neurochemistry and cerebrospinal fluid, (1998 Aug-Dec) 35 (1-3) 77-95.

Journal code: 8910358. ISSN: 1044-7393.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199907

ED Entered STN: 19990806

Last Updated on STN: 19990806

Entered Medline: 19990726

AB The biological roles of nitric oxide (NO) and cGMP as inter- and intracellular messengers have been intensively investigated during the last decade. NO and cGMP both mediate physiological effects in the cardiovascular, endocrinological, and immunological systems as well as in central nervous system (CNS). In the CNS, activation of the N-methyl-D-aspartic acid (NMDA) type of glutamatergic receptor induces Ca(2+)-dependent NOS and NO release, which then activates soluble guanylate cyclase for the synthesis of cGMP. Both compounds appear to be important mediators in long-term potentiation and long-term depression, and thus may play important roles in the mechanisms of learning and memory. Aging and the accumulation of amyloid beta (A beta) peptides are important risk factors for the impairment of memory and development of dementia. In these studies, the mechanism of basal- and NMDA

receptor-mediated cGMP formation in different parts of adult and aged brains was evaluated. The relative activity of the NO cascade was determined by assay of NOS and guanylate cyclase activities. In addition, the effect of the neurotoxic fragment 25-35 of A beta (A beta) peptide on basal and NMDA receptor-mediated NOS activity was investigated. The studies were carried out using slices of hippocampus, brain cortex, and cerebellum from 3- and 28-mo-old rats. Aging coincided with a decrease in the basal level of cGMP as a consequence of a more active degradation of cGMP by a phosphodiesterase in the aged brain as compared to the adult brain. Moreover, a loss of the NMDA receptor-stimulated enhancement of the cGMP level determined in the presence of cGMP-phosphodiesterase inhibitor 3-isobutyl-1-methylxanthine (IBMX) was observed in hippocampus and cerebellum of aged rats. However, this NMDA receptor response was preserved in aged brain cerebral cortex. A significant enhancement of the basal activity of NOS by about 175 and 160% in hippocampus and cerebellum, respectively, of aged brain may be involved in the alteration of the NMDA receptor response. The neurotoxic fragment of A beta, peptide 25-35, decreased significantly the NMDA receptor-mediated calcium, and calmodulin-dependent NO synthesis that may then be responsible for disturbances of the NO and cGMP signaling pathway. We concluded that cGMP-dependent signal transduction in hippocampus and cerebellum may become insufficient in senescent brain and may have functional consequences in disturbances of learning and memory processes. A beta peptide accumulated during brain aging and in Alzheimer disease may be an important factor in decreasing the NO-dependent signal transduction mediated by NMDA receptors.

TI Aging modulates nitric oxide synthesis and cGMP levels in hippocampus and cerebellum. Effects of amyloid beta peptide.

CT Check Tags: In Vitro; Male; Support, Non-U.S. Gov't

1-Methyl-3-isobutylxanthine: PD, pharmacology

2-Amino-5-phosphonovalerate: PD, pharmacology

*Aging: ME, metabolism

*Amyloid beta-Protein: PD, pharmacology

*Amyloid beta-Protein: PH, physiology

Animals

Cerebellum: DE, drug effects

Cerebellum: GD, growth & development

*Cerebellum: ME, metabolism

Cerebral Cortex: DE, drug effects

Cerebral Cortex: GD, growth & development

Cerebral Cortex: ME, metabolism

*Cyclic GMP: ME, metabolism

Dizocilpine Maleate: PD, pharmacology

*Guanylate Cyclase: ME, metabolism

Hippocampus: DE, drug effects

Hippocampus: GD, growth & development

*Hippocampus: ME, metabolism

Indazoles: PD, pharmacology

N-Methylaspartate: PD, pharmacology

Neuroprotective Agents: PD, pharmacology

Nitric Oxide: BI, biosynthesis

*Nitric-Oxide Synthase: ME, metabolism

Nitroarginine: PD, pharmacology

*Peptide Fragments: PD, pharmacology

Rats

Rats, Wistar

Receptors, N-Methyl-D-Aspartate: PH, physiology

RN 10102-43-9 (Nitric Oxide); 2149-70-4 (Nitroarginine); 28822-58-4

(1-Methyl-3-isobutylxanthine); 2942-42-9 (7-nitroindazole); 6384-92-5

(N-Methylaspartate); 7665-99-8 (Cyclic GMP); 76726-92-6

(2-Amino-5-phosphonovalerate); 77086-22-7 (Dizocilpine Maleate)

CN 0 (Amyloid beta-Protein); 0 (Indazoles); 0 (Neuroprotective Agents); 0

(Peptide Fragments); 0 (Receptors, N-Methyl-D-Aspartate); 0 (amyloid

beta-protein (25-35)); EC 1.14.13.39 (Nitric-Oxide Synthase); EC 4.6.1.2

(Guanylate Cyclase)

L25 ANSWER 5 OF 5 MEDLINE on STN

CLARK

AN 93361476 MEDLINE
 DN PubMed ID: 7689220
 TI Amyloid beta-protein activates tachykinin receptors and inositol trisphosphate accumulation by synergy with glutamate.
 AU Kimura H; Schubert D
 CS Salk Institute, San Diego, CA 92186-5800.
 SO Proceedings of the National Academy of Sciences of the United States of America, (1993 Aug 15) 90 (16) 7508-12.
 Journal code: 7505876. ISSN: 0027-8424.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199309
 ED Entered STN: 19931008
 Last Updated on STN: 19970203
 Entered Medline: 19930923
 AB The biological function of the soluble form of the amyloid beta-protein (ABP) was examined by assaying its interaction with neuronal receptors expressed in *Xenopus* oocytes. ABP weakly activated tachykinin receptors, but in the presence of N-methyl-D-aspartate and alpha-amino-3-hydroxy-5-methylisoxazole-4- propionate-type glutamate receptors ABP-induced responses were greatly enhanced. Glutamate and ABP together also induced accumulation of inositol trisphosphate and increases in intracellular Ca²⁺. These observations suggest that in the presence of glutamate, ABP can activate tachykinin receptors and phosphatidylinositol turnover. ABP may therefore act as a neuromodulatory peptide.
 TI Amyloid beta-protein activates tachykinin receptors and inositol trisphosphate accumulation by synergy with glutamate.
 CT Check Tags: Female; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.
 2-Amino-5-phosphonovalerate: PD, pharmacology
 6-Cyano-7-nitroquinoxaline-2,3-dione
 Amino Acid Sequence
 *Amyloid beta-Protein: PD, pharmacology
 Analgesics: PD, pharmacology
 Animals
 Calcium: PD, pharmacology
 Drug Synergism
 *Glutamates: PD, pharmacology
 Glutamic Acid
 *Inositol 1,4,5-Trisphosphate: ME, metabolism
 Kinetics
 Molecular Sequence Data
 Neurons: PH, physiology
 *Oocytes: ME, metabolism
 Quinoxalines: PD, pharmacology
 RNA, Messenger: ME, metabolism
 Receptors, AMPA
 Receptors, Glutamate: BI, biosynthesis
 Receptors, Glutamate: DE, drug effects
 *Receptors, Glutamate: ME, metabolism
 Receptors, N-Methyl-D-Aspartate: BI, biosynthesis
 Receptors, N-Methyl-D-Aspartate: DE, drug effects
 *Receptors, N-Methyl-D-Aspartate: ME, metabolism
 Receptors, Neurokinin-1
 Receptors, Neurotransmitter: BI, biosynthesis
 Receptors, Neurotransmitter: DE, drug effects
 *Receptors, Neurotransmitter: ME, metabolism
 Sodium: PD, pharmacology
 Substance P: AA, analogs & derivatives
 Substance P: PD, pharmacology
 Xenopus
 RN 115066-14-3 (6-Cyano-7-nitroquinoxaline-2,3-dione); 33507-63-0 (Substance P); 56-86-0 (Glutamic Acid); 7440-23-5 (Sodium); 7440-70-2 (Calcium); 76726-92-6 (2-Amino-5-phosphonovalerate); 85166-31-0 (Inositol 1,4,5-Trisphosphate); 91224-37-2 (spantide)
 CN 0 (Amyloid beta-Protein); 0 (Analgesics); 0 (Glutamates); 0

CLARK

(Quinoxalines); 0 (RNA, Messenger); 0 (Receptors, AMPA); 0 (Receptors, Glutamate); 0 (Receptors, N-Methyl-D-Aspartate); 0 (Receptors, Neurokinin-1); 0 (Receptors, Neurotransmitter)

CLARK

=> d que 126

L2 16 SEA FILE=REGISTRY ABB=ON PLU=ON (100-88-9/BI OR 1120-71-4/BI
OR 14099-81-1/BI OR 22458-67-9/BI OR 29777-99-9/BI OR 303957-00
-8/BI OR 303957-01-9/BI OR 309752-14-5/BI OR 376-73-8/BI OR
407-41-0/BI OR 40712-20-7/BI OR 58431-88-2/BI OR 7013-33-4/BI
OR 76326-31-3/BI OR 91-21-4/BI OR 939-23-1/BI)
L23 3206 SEA FILE=MEDLINE ABB=ON PLU=ON L2
L26 6 SEA FILE=MEDLINE ABB=ON PLU=ON L23 AND TRANSPLANT?

=> d bib ab trial 126 1-6

L26 ANSWER 1 OF 6 MEDLINE on STN
AN 96224265 MEDLINE
DN PubMed ID: 8643558
TI Malignant conversion of chemically transformed normal human cells.
AU Milo G E; Li D; Casto B C; Theil K; Shuler C; Noyes I; Chen J
CS Department of Medical Biochemistry and Comprehensive Cancer Center, The
Ohio State University, Columbus, OH 43210, USA.
NC R01 CA25907-14 (NCI)
SO Proceedings of the National Academy of Sciences of the United States of
America, (1996 May 28) 93 (11) 5229-34.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199607
ED Entered STN: 19960726
Last Updated on STN: 19970203
Entered Medline: 19960717
AB Two structurally unrelated chemicals, aflatoxin B1 and propane sultone,
transformed human foreskin cells to a stage of anchorage-independent
growth. Isolation from agar and repopulation in monolayer culture of
these transformed cells was followed by transfection with a cDNA library,
which resulted in cells that exhibited an altered epithelioid morphology.
Chemically transformed/nontransfected cells and transfected normal cells
did not undergo a significant morphological change. These
epithelioid-appearing, transfected cells, when inoculated into nude mice,
form progressively growing tumors. The tumors are histopathologically
interpreted as carcinomas. All of the first generation tumors in the
surrogate hosts exhibited characteristic rates of growth similar to those
of transplants of spontaneous human tumors. In the second
generation of tumor xenografts, the progressively growing tumors derived
from the transfected cells exhibited a more rapid rate of growth.
Southern analysis and reverse transcription PCR confirmed that a 1.3-kb
genetic element was integrated into the genome and was actively being
transcribed. Examination of the metaphase chromosomes in normal human
cells revealed that the genetic element responsible for this conversion
was located at site 31-32 of the q arm of chromosome 7. The DNA sequence
of this 1.3-kb genetic element contains a coding region for 79 amino acids
and a long 3'-untranslated region and appears to be identical to CATR1.3
isolated from tumors produced by methyl methanesulfonate-converted,
nontransplantable human tumor cells.
TI Malignant conversion of chemically transformed normal human cells.
CT Check Tags: Human; Male; Support, U.S. Gov't, P.H.S.
*Aflatoxin B1: T0, toxicity
Animals
Base Sequence
Blotting, Southern
*Carcinogens: T0, toxicity
*Carcinoma: PA, pathology
Cell Adhesion
Cell Division
*Cell Transformation, Neoplastic
Cell Transformation, Neoplastic: DE, drug effects
Cells, Cultured

CLARK

Chromosome Mapping
 *Chromosomes, Human, Pair 7
 DNA Primers
 Epithelium
 *Gene Conversion
 Infant, Newborn
 Methyl Methanesulfonate: TO, toxicity
 Mice
 Mice, Nude
 Molecular Sequence Data
 Polymerase Chain Reaction
 Sarcoma Viruses, Avian
 *Skin: CY, cytology
 Skin: DE, drug effects
 Skin: PA, pathology
 *Thiophenes: TO, toxicity
 Transcription, Genetic
 Transfection
 Transplantation, Heterologous
 RN 1120-71-4 (1,3-propane sultone); 1162-65-8 (Aflatoxin B1);
 66-27-3 (Methyl Methanesulfonate)
 CN 0 (Carcinogens); 0 (DNA Primers); 0 (Thiophenes)

L26 ANSWER 2 OF 6 MEDLINE on STN
 AN 96016494 MEDLINE
 DN PubMed ID: 7583294
 TI Modulation of NMDA receptor expression in the rat spinal cord by
 peripheral nerve injury and adrenal medullary grafting.
 AU Hama A T; Unnerstall J R; Siegan J B; Sagen J
 CS Department of Anatomy and Cell Biology, University of Illinois at Chicago
 60612, USA.
 NC NS25054 (NINDS)
 SO Brain research, (1995 Jul 31) 687 (1-2) 103-13.
 Journal code: 0045503. ISSN: 0006-8993.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199512
 ED Entered STN: 19960124
 Last Updated on STN: 19970203
 Entered Medline: 19951214

AB Excessive activation of N-methyl-D-aspartate (NMDA) receptors in the
 spinal cord consequent to peripheral injury has been implicated in the
 initiation of neuropathologic events leading to a state of chronic
 hyperexcitability and persistence of exaggerated sensory processing. In
 other CNS disease or injury states, NMDA-mediated neurotoxic damage is
 associated with a loss of NMDA receptors, and outcome may be improved by
 agents reducing NMDA activation. Previous findings in our laboratory have
 demonstrated that the **transplantation** of adrenal medullary
 tissue into the spinal subarachnoid space can alleviate sensory
 abnormalities and reduce the induction of a putative nitric oxide synthase
 consequent to peripheral nerve injury. In order to determine changes in
 NMDA receptor expression in the spinal cord following peripheral nerve
 injury and adrenal medullary grafting, NMDA receptor binding using a
 high-affinity competitive NMDA receptor antagonist, CGP-39653, and NMDAR1
 subunit distribution using immunocytochemistry were investigated. Two
 weeks following peripheral nerve injury by loose ligation of the right
 sciatic nerve, either adrenal medullary or striated muscle (control)
 tissue pieces were implanted in the spinal subarachnoid space. Binding
 studies revealed a marked reduction in [3H]CGP-39653 binding at L4-L5
 levels ipsilateral to peripheral nerve injury in control
transplanted animals. In contrast, NMDA binding was normalized in
 adrenal medullary grafted animals. In addition, NMDAR1 immunoreactivity
 was reduced in both the dorsal horn neuropil and motor neurons of the
 ventral horn in animals with peripheral nerve injury, while levels in
 adrenal medullary grafted animals appeared similar to intact controls.

CLARK

These results suggest that adrenal medullary **transplants** reduce abnormal sensory processing resulting from peripheral injury by intervening in the spinal NMDA-excitotoxicity cascade.

TI Modulation of NMDA receptor expression in the rat spinal cord by peripheral nerve injury and adrenal medullary grafting.

CT Check Tags: Male; Support, U.S. Gov't, P.H.S.
2-Amino-5-phosphonovalerate: AA, analogs & derivatives
2-Amino-5-phosphonovalerate: PD, pharmacology
*Adrenal Medulla: TR, transplantation
Animals
Excitatory Amino Acid Antagonists: PD, pharmacology
Immunohistochemistry
Nitric-Oxide Synthase: BI, biosynthesis
*Peripheral Nerves: IN, injuries
Radioligand Assay
Rats
Rats, Sprague-Dawley
Receptors, N-Methyl-D-Aspartate: AI, antagonists & inhibitors
Receptors, N-Methyl-D-Aspartate: BI, biosynthesis
*Receptors, N-Methyl-D-Aspartate: ME, metabolism
Sciatic Nerve: IN, injuries
*Spinal Cord: ME, metabolism

RN 132472-31-2 (CGP 39653); 76726-92-6 (2-Amino-5-phosphonovalerate)

CN 0 (Excitatory Amino Acid Antagonists); 0 (Receptors, N-Methyl-D-Aspartate);
EC 1.14.13.39 (Nitric-Oxide Synthase)

L26 ANSWER 3 OF 6 MEDLINE on STN

AN 95203351 MEDLINE

DN PubMed ID: 7895786

TI Regulation of dopamine levels in intrastriatal grafts of fetal mesencephalic cell suspension: an in vivo voltammetric approach.

AU Moukhles H; Forni C; Nieoullon A; Daszuta A

CS Laboratoire de Neurobiologie Cellulaire et Fonctionnelle, CNRS, Marseille, France.

SO Experimental brain research. Experimentelle Hirnforschung. Experimentation cerebrale, (1994) 102 (1) 10-20.
Journal code: 0043312. ISSN: 0014-4819.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199504

ED Entered STN: 19950504
Last Updated on STN: 19970203
Entered Medline: 19950425

AB An in vivo voltammetric technique was used to monitor dopamine (DA) release in the 6-hydroxydopamine (6-OHDA)-lesioned rat striatum reinnervated by grafts of ventral mesencephalon containing DA neurons. Extracellular levels of DA were measured during the administration of D1 or D2 DA receptor antagonists. In addition, changes in DA levels induced by agonists and antagonists of excitatory amino acid (EAA) receptors were studied to verify the possible existence of a host glutamatergic control on the grafted DA cells in the '**transplanted**' rats. Two months after the grafts were performed, the voltammetric signal measured under baseline conditions in the grafted striata was found to be almost similar to that recorded on the contralateral control side. Likewise, in another group of **transplanted** rats, the turnover of the amine, as expressed by the DO-PAC/DA tissue level ratio, was found to have become "normalized" after grafting, compared with the lesion-only group. The increase in the voltammetric signal observed after administering the D2 antagonist sulpiride (100 mg/kg i.p.) was lower in the grafted striata than on the contralateral side, however. This suggests that some D2 autoreceptor subsensitivity may have helped to maintain the baseline level of dopaminergic transmission. Adaptive processes of this kind might compensate for the partial DA reinnervation of the host striatum found to occur on the basis of the tyrosine hydroxylase immunostaining patterns. After administration of either the D1 antagonist SCH 23390 (0.1 mg/kg

CLARK

s.c.), or injection of EAA receptor agonists--l-glutamate, quisqualate and N-methyl-D-aspartate (all 10 nmol i.c.v.)--and antagonists--amino-phosphono-valeric acid (10 nmol i.c.v.) and dizocilpine (MK801, 0.2 mg/kg i.p.)--no significant differences between the two striata were detected in the voltammetric signals. These results suggest that, in the grafted rats, neurons belonging to the host population, such as the striatal cells bearing D1 receptors or the corticostriatal afferents presumed to contain glutamate, might modulate the DA levels, as was found to occur under normal conditions.

TI Regulation of dopamine levels in intrastriatal grafts of fetal mesencephalic cell suspension: an in vivo voltammetric approach.

CT Check Tags: Female; Support, Non-U.S. Gov't
2-Amino-5-phosphonovalerate: PD, pharmacology
3,4-Dihydroxyphenylacetic Acid: ME, metabolism
Analysis of Variance

Animals

*Brain Tissue Transplantation: PH, physiology

Cerebral Ventricles: DE, drug effects

Cerebral Ventricles: PH, physiology

Corpus Striatum: DE, drug effects

*Corpus Striatum: PH, physiology

Dizocilpine Maleate: PD, pharmacology

*Dopamine: ME, metabolism

Fetal Tissue Transplantation: PH, physiology

Glutamic Acid: AD, administration & dosage

Glutamic Acid: PD, pharmacology

Injections, Intraventricular

Kinetics

Mesencephalon: DE, drug effects

*Mesencephalon: PH, physiology

*Mesencephalon: TR, transplantation

N-Methylaspartate: AD, administration & dosage

N-Methylaspartate: PD, pharmacology

Oxidopamine

Quisqualic Acid: AD, administration & dosage

Quisqualic Acid: PD, pharmacology

Rats

Rats, Wistar

Receptors, Dopamine D1: AI, antagonists & inhibitors

Receptors, Dopamine D2: AI, antagonists & inhibitors

Sch-23390: PD, pharmacology

Sulpiride: PD, pharmacology

Time Factors

Transplantation, Heterotopic

RN 102-32-9 (3,4-Dihydroxyphenylacetic Acid); 1199-18-4 (Oxidopamine);
15676-16-1 (Sulpiride); 51-61-6 (Dopamine); 52809-07-1 (Quisqualic Acid);
56-86-0 (Glutamic Acid); 6384-92-5 (N-Methylaspartate); 76726-92-6
(2-Amino-5-phosphonovalerate); 77086-22-7 (Dizocilpine Maleate);
87075-17-0 (Sch-23390)

CN 0 (Receptors, Dopamine D1); 0 (Receptors, Dopamine D2)

L26 ANSWER 4 OF 6 MEDLINE on STN

AN 94009510 MEDLINE

DN PubMed ID: 8104820

TI Evidence for enhanced synaptic excitation in transplanted neostriatal neurons.

AU Sivity S M; Walsh J P; Radisavljevic Z; Cohen R W; Buchwald N A; Levine M S

CS Mental Retardation Research Center, UCLA School of Medicine 90024.

NC HD05958 (NICHHD)

SO Experimental neurology, (1993 Oct) 123 (2) 222-34.

Journal code: 0370712. ISSN: 0014-4886.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199311

ED Entered STN: 19940117

Last Updated on STN: 19950206

Entered Medline: 19931122

AB Fetal neostriatal tissue was **transplanted** into either the neostriatum or substantia nigra of adult rats. One to 6 months after **transplantation**, coronal brain slices were taken through the rostrocaudal extent of the **transplants** and neurons were characterized electrophysiologically using an in vitro slice preparation. When compared to control neurons taken from intact adult neostriata, **transplanted** neostriatal neurons (TSNs) had higher input resistances and longer time constants. All other passive and active membrane properties assessed were comparable between **transplanted** and control neostriatal neurons. Regardless of the **transplantation** site, local extracellular stimulation outside the graft elicited high-amplitude, long-duration depolarizing synaptic potentials that typically triggered bursts of action potentials. These synaptic potentials contrast with lower amplitude, shorter duration synaptic potentials consistently elicited in control neostriatal neurons. The depolarizing synaptic potentials evoked in the TSNs appeared to be mediated by a combined activation of N-methyl-D-aspartate (NMDA) and non-NMDA excitatory amino acid receptors. Both the broad-spectrum excitatory amino acid antagonist kynurenic acid and the specific non-NMDA receptor antagonist, 6-cyano-7-nitroquinoxaline-2,3-dione significantly reduced postsynaptic potentials elicited in TSNs. The specific NMDA antagonist 2-amino-5-phosphonovalerate had less effect on the amplitude but markedly reduced the duration of the synaptic potentials. The duration and amplitude of the bursts were augmented by the gamma-aminobutyric acid (GABA)A receptor antagonist bicuculline methiodide, indicating that inhibition occurred in TSNs. TSNs were also more sensitive than control neurons to direct application of glutamate or NMDA. These findings demonstrate that TSNs express altered electrophysiological properties. The pharmacological analysis indicates that depolarizing postsynaptic potentials were mediated by activation of excitatory amino acid receptors, suggesting either innervation of the graft by host fibers which contain excitatory amino acids or development of novel local excitatory interactions intrinsic to the graft. Furthermore, the occurrence of high-amplitude, long-duration depolarizing synaptic potentials in TSNs, regardless of the site of **transplantation**, suggests that grafted neostriatal neurons become hyperexcitable to synaptic input.

TI Evidence for enhanced synaptic excitation in **transplanted** neostriatal neurons.

CT Check Tags: Male; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.

2-Amino-5-phosphonovalerate: PD, pharmacology

6-Cyano-7-nitroquinoxaline-2,3-dione

Animals

Electrophysiology

*Fetal Tissue Transplantation

Glutamates: PD, pharmacology

Glutamic Acid

Kynurenic Acid: PD, pharmacology

N-Methylaspartate: ME, metabolism

*Neostriatum: PH, physiology

Neostriatum: TR, transplantation

Quinoxalines: PD, pharmacology

Rats

Rats, Sprague-Dawley

Receptors, N-Methyl-D-Aspartate: AI, antagonists & inhibitors

*Substantia Nigra: PH, physiology

Synapses: DE, drug effects

*Synapses: PH, physiology

Synaptic Transmission: DE, drug effects

RN 115066-14-3 (6-Cyano-7-nitroquinoxaline-2,3-dione); 492-27-3 (Kynurenic Acid); 56-86-0 (Glutamic Acid); 6384-92-5 (N-Methylaspartate);

76726-92-6 (2-Amino-5-phosphonovalerate)

CN 0 (Glutamates); 0 (Quinoxalines); 0 (Receptors, N-Methyl-D-Aspartate)

CLARK

AN 90058905 MEDLINE
 DN PubMed ID: 2573439
 TI In vitro electrophysiological analysis of mature rat hippocampal **transplants** in oculo.
 AU Mynlieff M; Proctor W R; Seiger A; Dunwiddie T V
 CS Department of Physiology, Colorado State University, Fort Collins 80523.
 NC DA 02702 (NIDA)
 SO Brain research. Developmental brain research, (1989 Nov 1) 50 (1) 113-22.
 Journal code: 8908639. ISSN: 0165-3806.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199001
 ED Entered STN: 19900328
 Last Updated on STN: 19970203
 Entered Medline: 19900104
 AB We have investigated the maturation of isolated rat hippocampus grafted into the anterior chamber of the eye. Electrophysiological responses from **transplants** were compared to those recorded from the in vitro hippocampal slice preparation. Intracellular recording demonstrated that the passive membrane characteristics of intraocular hippocampal neurons were similar to those of the CA1 pyramidal cells in the in vitro slice preparation. However, the slow after-hyperpolarization which normally follows depolarization-induced action potentials was reduced or completely absent in the intraocular **transplants**, and the excitatory postsynaptic potential (EPSP) evoked by local stimulation was prolonged. The duration of the EPSP was reduced by perfusion with D-aminophosphonovaleric acid (2.5-50 microM), an N-methyl-D-aspartate receptor antagonist. Normal levels of glutamate decarboxylase (a marker for gamma-aminobutyric acidergic neurons) were found in the **transplants**, and responses to adenosine, bicuculline, and norepinephrine were similar in the in oculo **transplants** and in vitro slices. The data suggest that although many properties of hippocampal neurons are intrinsically determined, other aspects of the physiology of mature hippocampus either fail to develop, or develop abnormally in the absence of external inputs in oculo.
 TI In vitro electrophysiological analysis of mature rat hippocampal **transplants** in oculo.
 CT Check Tags: Support, Non-U.S. Gov't; Support, U.S. Gov't, Non-P.H.S.; Support, U.S. Gov't, P.H.S.
 2-Amino-5-phosphonovalerate: PD, pharmacology
 Action Potentials: DE, drug effects
 Animals
 *Anterior Chamber
 Glutamate Decarboxylase: ME, metabolism
 Hippocampus: ME, metabolism
 Hippocampus: PH, physiology
 *Hippocampus: TR, transplantation
 Membrane Potentials: DE, drug effects
 Norepinephrine: PD, pharmacology
 Rats
 Rats, Inbred Strains
 RN 51-41-2 (Norepinephrine); 76726-92-6 (2-Amino-5-phosphonovalerate)
 CN EC 4.1.1.15 (Glutamate Decarboxylase)
 L26 ANSWER 6 OF 6 MEDLINE on STN
 AN 88334515 MEDLINE
 DN PubMed ID: 2901662
 TI Excitatory amino acid receptors expressed in Xenopus oocytes: agonist pharmacology.
 AU Verdoorn T A; Dingledine R
 CS Department of Pharmacology and Neurobiology Curriculum, University of North Carolina, Chapel Hill 27599.
 NC NS-17771 (NINDS)
 NS-22249 (NINDS)
 NS-23804 (NINDS)

SO Molecular pharmacology, (1988 Sep) 34 (3) 298-307.
 Journal code: 0035623. ISSN: 0026-895X.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 198810
 ED Entered STN: 19900308
 Last Updated on STN: 19970203
 Entered Medline: 19881026

AB The properties of excitatory amino acid (EAA) receptors transplanted into *Xenopus* oocytes were investigated by voltage clamp 48 hr to 5 days after oocytes had been injected with mRNA isolated from rat brain. The application of EAA agonists to mRNA-injected cells, but not to uninjected or water-injected cells, produced several different inward currents, two of which are characteristic of neuronal EAA receptors. Currents with properties expected from activation of N-methyl-D-aspartate (NMDA) receptors were evoked by L-glutamate (EC₅₀ = 2.3 microM), D-aspartate (10 microM), L-aspartate (13 microM), NMDA (31 microM), and ibotenate (35 microM). Inward currents activated by these agonists were blocked by Mg²⁺ in a voltage-dependent manner and antagonized by 10-50 microM D-2-amino-5-phosphonovaleric acid (D-APV). The D-APV block was not voltage dependent. A second type of inward current was produced by kainate, domoate, (RS)-alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA), and L-glutamate. This smooth inward current was insensitive to Mg²⁺ and D-APV. L-Glutamate and domoate were equipotent for activating this current (EC₅₀ = 14 microM) whereas kainate was less potent (98 microM). The kainate potency was somewhat voltage dependent, inasmuch as the EC₅₀ was 33% lower when measured at +38 mV than when measured at -60 mV in the same cells. Quisqualate (50 microM) and AMPA (50 microM) drastically reduced the kainate current, suggesting these agonists also interact with this receptor. Some mRNA preparations encoded only receptors for the kainate response, which argues for distinct NMDA and non-NMDA receptors. A third type of inward current was produced by quisqualate. This current, consisting of oscillating and smooth components, was carried by chloride and not evoked by AMPA, suggesting it is not likely caused by activation of the conventional neuronal quisqualate receptor. The utility of the oocyte preparation for quantitative pharmacological studies of EAA receptors is discussed.

TI Excitatory amino acid receptors expressed in *Xenopus* oocytes: agonist pharmacology.

CT Check Tags: Female; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.
 2-Amino-5-phosphonovalerate
 Animals
 Aspartic Acid: AA, analogs & derivatives
 Aspartic Acid: PD, pharmacology
 Chlorides: ME, metabolism
 Ibotenic Acid: AA, analogs & derivatives
 Ibotenic Acid: PD, pharmacology
 Kainic Acid: PD, pharmacology
 Membrane Potentials: DE, drug effects
 N-Methylaspartate
 *Oocytes: AN, analysis
 Oxadiazoles: PD, pharmacology
 Quisqualic Acid
 Rats
 Receptors, AMPA
 *Receptors, Drug: DE, drug effects
 Receptors, Kainic Acid
 Receptors, N-Methyl-D-Aspartate
 *Receptors, Neurotransmitter: DE, drug effects
 Valine: AA, analogs & derivatives
 Valine: PD, pharmacology
 Xenopus
 alpha-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid

RN 2552-55-8 (Ibotenic Acid); 487-79-6 (Kainic Acid); 52809-07-1 (Quisqualic Acid); 56-84-8 (Aspartic Acid); 6384-92-5 (N-Methylaspartate); 7004-03-7

CLARK

(Valine); 76726-92-6 (2-Amino-5-phosphonovalerate); 77521-29-0
(alpha-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid)
CN 0 (Chlorides); 0 (Oxadiazoles); 0 (Receptors, AMPA); 0 (Receptors, Drug);
0 (Receptors, Kainic Acid); 0 (Receptors, N-Methyl-D-Aspartate); 0
(Receptors, Neurotransmitter)

CLARK

=> d que

L2 16 SEA FILE=REGISTRY ABB=ON PLU=ON (100-88-9/BI OR 1120-71-4/BI
OR 14099-81-1/BI OR 22458-67-9/BI OR 29777-99-9/BI OR 303957-00
-8/BI OR 303957-01-9/BI OR 309752-14-5/BI OR 376-73-8/BI OR
407-41-0/BI OR 40712-20-7/BI OR 58431-88-2/BI OR 7013-33-4/BI
OR 76326-31-3/BI OR 91-21-4/BI OR 939-23-1/BI)
L3 6756 SEA FILE=HCAPLUS ABB=ON PLU=ON L2
L13 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L3(L)AMYLOID?
L14 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND PY<2001

=> d ibib abs hitstr 1

L14 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:841961 HCAPLUS
DOCUMENT NUMBER: 134:13348
TITLE: Methods and compounds for inhibiting amyloid deposits
INVENTOR(S): Szarek, Walter A.; Weaver, Donald E.; Kong, Xianqi;
Gupta, Ajay; Migneault, David
PATENT ASSIGNEE(S): Queen's University at Kingston, Can.; Neurochem, Inc.
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000071101	A2	20001130	WO 2000-CA607	20000524 <--
WO 2000071101	A3	20011206		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6562836	B1	20030513	US 2000-576677	20000523
EP 1227803	A2	20020807	EP 2000-930923	20000524
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
JP 2003500350	T2	20030107	JP 2000-619408	20000524
PRIORITY APPLN. INFO.:			US 1999-135545P	P 19990524
			US 1999-143123P	P 19990709
			US 2000-576677	A 20000523
			WO 2000-CA607	W 20000524

OTHER SOURCE(S): MARPAT 134:13348

AB Methods and compns. are provided which are useful in the treatment of amyloidosis. In particular, methods and compns. are provided for inhibiting, preventing and treating amyloid deposition, e.g., in pancreatic islets, wherein the amyloidotic deposits are islet amyloid polypeptide (IAPP)-assocd. amyloid deposition or deposits. The methods of the invention involve administering to a subject a therapeutic compd. which inhibits IAPP-assocd. amyloid deposits. Accordingly, the compns. and methods of the invention are useful for inhibiting IAPP-assocd. amyloidosis in disorders in which such amyloid deposition occurs, such as diabetes. Prepn. of a compd. of the invention, 4-phenyl-1-(3'-sulfofpropyl)-1,2,3,6-tetrahydropyridine sodium salt, is described.

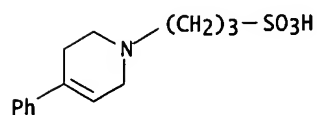
IT 303957-01-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amyloid deposit-inhibiting compds. and methods)

RN 303957-01-9 HCAPLUS

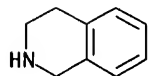
CLARK

CN 1(2H)-Pyridinepropanesulfonic acid, 3,6-dihydro-4-phenyl-, sodium salt
(9CI) (CA INDEX NAME)



● Na

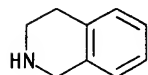
IT 91-21-4, 1,2,3,4-Tetrahydroisoquinoline 376-73-8
14099-81-1 303957-00-8
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amyloid deposit-inhibiting compds. and methods)
RN 91-21-4 HCAPLUS
CN Isoquinoline, 1,2,3,4-tetrahydro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 376-73-8 HCAPLUS
CN Pentanedioic acid, hexafluoro- (9CI) (CA INDEX NAME)

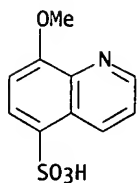
HO₂C-(CF₂)₃-CO₂H

RN 14099-81-1 HCAPLUS
CN Isoquinoline, 1,2,3,4-tetrahydro-, hydrochloride (6CI, 8CI, 9CI) (CA INDEX NAME)



● HCl

RN 303957-00-8 HCAPLUS
CN 5-Quinolinesulfonic acid, 8-methoxy-, sodium salt (9CI) (CA INDEX NAME)



● Na

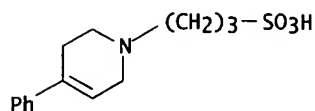
CLARK

IT 309752-14-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and reaction; amyloid deposit-inhibiting compds. and
methods)

RN 309752-14-5 HCAPLUS

CN 1(2H)-Pyridinepropanesulfonic acid, 3,6-dihydro-4-phenyl- (9CI) (CA INDEX
NAME)

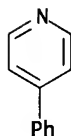


IT 939-23-1, 4-Phenylpyridine 1120-71-4, 1,3-Propane
sultone

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction; amyloid deposit-inhibiting compds. and methods)

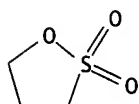
RN 939-23-1 HCAPLUS

CN Pyridine, 4-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 1120-71-4 HCAPLUS

CN 1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI) (CA INDEX NAME)



=> d ibib abs hitstr 2

L14 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:772432 HCAPLUS

DOCUMENT NUMBER: 133:329624

TITLE: Compositions and methods for treating amyloidosis

INVENTOR(S): Gordon, Heather; Szarek, Walter; Weaver, Donald; Kong,
Xianqi

PATENT ASSIGNEE(S): Queen's University at Kingston, Can.; Neurochem, Inc.

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000064420	A2	20001102	WO 2000-CA494	20000428 <--
WO 2000064420	A3	20021107		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,

CLARK

SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 BR 2000010099 A 20020604 BR 2000-10099 20000428
 EP 1276483 A2 20030122 EP 2000-922395 20000428
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2003517458 T2 20030527 JP 2000-613411 20000428
 PRIORITY APPLN. INFO.: US 1999-131464P P 19990428
 US 1999-135545P P 19990524
 US 1999-143123P P 19990709
 WO 2000-CA494 W 20000428

OTHER SOURCE(S): MARPAT 133:329624

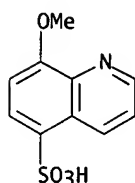
AB Therapeutic compds. and methods for modulating amyloid aggregation in a subject, whatever its clin. setting, are described. Amyloid aggregation is modulated by the administration to a subject of an effective amt. of a therapeutic compd. [(R1Zk)(R2Qm)N]pTYs [R1, R2 = H, (un)substituted alkyl, (un)substituted aryl; Z, Q = C(O), C(S), SO₂, SO; k, m = 0, 1, with provisions; p, s = pos. integer such that biodistribution of therapeutic compd. for intended target site is not prevented while maintaining activity of therapeutic compd.; T = linking group; Y = AX; A = anionic group at physiol. pH; X = cationic group], or a pharmaceutically acceptable salt or ester, such that modulation of amyloid aggregation occurs. Prepn. of e.g. 8-methoxy-5-quinolinesulfonic acid sodium salt is described.

IT 303957-00-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amyloidosis treatment compds. and compns.)

RN 303957-00-8 HCAPLUS

CN 5-Quinolinesulfonic acid, 8-methoxy-, sodium salt (9CI) (CA INDEX NAME)



● Na

IT 100-88-9 407-41-0 7013-33-4 14099-81-1

29777-99-9 40712-20-7 58431-88-2

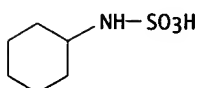
76326-31-3 303957-01-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(amyloidosis treatment compds. and compns.)

RN 100-88-9 HCAPLUS

CN Sulfamic acid, cyclohexyl- (9CI) (CA INDEX NAME)

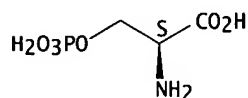


RN 407-41-0 HCAPLUS

CLARK

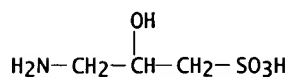
CN L-Serine, dihydrogen phosphate (ester) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



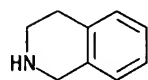
RN 7013-33-4 HCAPLUS

CN 1-Propanesulfonic acid, 3-amino-2-hydroxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 14099-81-1 HCAPLUS

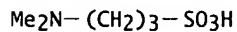
CN Isoquinoline, 1,2,3,4-tetrahydro-, hydrochloride (6CI, 8CI, 9CI) (CA INDEX NAME)



● HCl

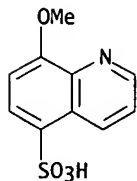
RN 29777-99-9 HCAPLUS

CN 1-Propanesulfonic acid, 3-(dimethylamino)- (8CI, 9CI) (CA INDEX NAME)



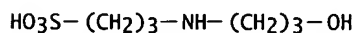
RN 40712-20-7 HCAPLUS

CN 5-Quinolinesulfonic acid, 8-methoxy- (9CI) (CA INDEX NAME)



RN 58431-88-2 HCAPLUS

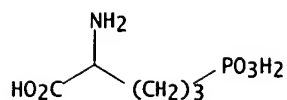
CN 1-Propanesulfonic acid, 3-[(3-hydroxypropyl)amino]- (9CI) (CA INDEX NAME)



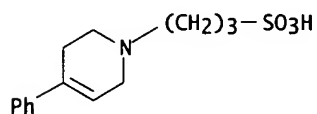
RN 76326-31-3 HCAPLUS

CN Norvaline, 5-phosphono- (9CI) (CA INDEX NAME)

CLARK

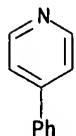


RN 303957-01-9 HCAPLUS
CN 1(2H)-Pyridinepropanesulfonic acid, 3,6-dihydro-4-phenyl-, sodium salt
(9CI) (CA INDEX NAME)

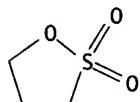


● Na

IT 939-23-1, 4-Phenylpyridine 1120-71-4, 1,3-Propane
sulfone
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction; amyloidosis treatment compds. and compns.)
RN 939-23-1 HCAPLUS
CN Pyridine, 4-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 1120-71-4 HCAPLUS
CN 1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI) (CA INDEX NAME)



=> d ibib abs hitstr 3

L14 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:776581 HCAPLUS
DOCUMENT NUMBER: 130:20587
TITLE: Method for treating amyloidosis
INVENTOR(S): Kisilevsky, Robert; Szarek, Walter; Weaver, Donald
PATENT ASSIGNEE(S): Queen's University at Kingston, Can.
SOURCE: U.S., 29 pp., Cont.-in-part of U.S. Ser. No. 463,548.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

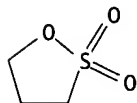
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5840294	A	19981124	US 1995-542997	19951013 <--

05/19/2004

Page 6

CLARK

EP 1060750 A2 20001220 EP 2000-202287 19940329 <--
 EP 1060750 A3 20030326
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE
 US 5643562 A 19970701 US 1995-403230 19950315 <--
 US 5972328 A 19991026 US 1995-463548 19950605 <--
 CA 2213759 AA 19960919 CA 1996-2213759 19960315 <--
 WO 9628187 A1 19960919 WO 1996-CA179 19960315 <--
 W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG,
 KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU,
 SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
 IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
 MR, NE, SN, TD, TG
 AU 9650976 A1 19961002 AU 1996-50976 19960315 <--
 AU 716218 B2 20000224
 BR 9607197 A 19971111 BR 1996-7197 19960315 <--
 EP 814842 A1 19980107 EP 1996-907229 19960315 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 JP 11501635 T2 19990209 JP 1996-527140 19960315 <--
 NZ 303914 A 20001222 NZ 1996-303914 19960315 <--
 JP 2004115539 A2 20040415 JP 2003-404129 20031203
 PRIORITY APPLN. INFO.:
 US 1993-37844 B2 19930329
 US 1994-219798 B2 19940329
 US 1994-315391 B2 19940929
 US 1995-403230 A2 19950315
 US 1995-463548 A2 19950605
 EP 1994-909883 A3 19940329
 US 1995-542997 A 19951013
 JP 1996-527140 A3 19960315
 WO 1996-CA179 W 19960315
 AB Therapeutic compds. and methods for inhibiting amyloid deposition in a
 subject, whatever its clin. setting, are described. Amyloid deposition is
 inhibited by the administration to a subject of an effective amt. of a
 therapeutic compd. comprising an anionic group and a carrier mol., or a
 pharmaceutically acceptable salt thereof, such that an interaction between
 an amyloidogenic protein and a basement membrane constituent is inhibited.
 Preferred anionic groups are sulfonates and sulfates. Preferred carrier
 mols. include carbohydrates, polymers, peptides, peptide derivs., aliph.
 groups, alicyclic groups, heterocyclic groups, arom. groups and
 combinations thereof.
 IT 1120-71-4
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)
 (inhibition of amyloid deposition by drugs comprising an
 anionic group and a carrier mol.)
 RN 1120-71-4 HCAPLUS
 CN 1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs hitstr 4

L14 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:490526 HCAPLUS

DOCUMENT NUMBER: 129:131257

TITLE: Treatment of neurotoxicity in Alzheimer's disease by

CLARK

INVENTOR(S): .beta.-amyloid peptides
PATENT ASSIGNEE(S): Ingram, Vernon M.; Blanchard, Barbara J.
SOURCE: Massachusetts Institute of Technology, USA
PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9830229	A1	19980716	WO 1998-US653	19980109 <--
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1015013	A1	20000705	EP 1998-902522	19980109 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

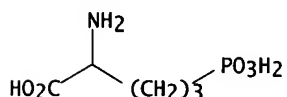
PRIORITY APPLN. INFO.:
US 1997-35847P P 19970110
US 1997-960188 A 19971029
WO 1998-US653 W 19980109

AB The invention involves identification of a mechanism of .beta.-amyloid peptide cytotoxicity, which enables treatment of conditions caused by .beta.-amyloid peptide aggregates by administration of compds. which antagonize the mechanism of cytotoxicity. The invention includes the identification and isolation of compds. which can antagonize the aggregation of .beta.-amyloid peptides and the neurotoxic effects of such aggregates. The compds. include isolated peptides which were selected for their ability to form a complex with a .beta.-amyloid peptide, or are derived from peptides so selected. Methods for treating conditions resulting from neurotoxic .beta.-amyloid peptide aggregates and pharmaceutical preps. are provided. Also provided are methods for selecting addnl. compds. which can antagonize the aggregation of .beta.-amyloid peptides and the neurotoxic effects of such aggregates.

IT 76326-31-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(treatment of neurotoxicity in Alzheimer's disease by .beta.-amyloid peptides)

RN 76326-31-3 HCAPLUS

CN Norvaline, 5-phosphono- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT